PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ATHBY / P32968PC	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
	International filing date (day/month	//year) (Earliest) Priority Date (day/month/year)
PCT/GB2005/001463	15/04/2005	15/04/2004
Applicant		
ATHERA BIOTECHNOLOGIES AB		
This international search report has been p according to Article 18. A copy is being tran	repared by this International Searc nsmitted to the International Bureau	hing Authority and is transmitted to the applicant I.
This international search report consists of It is also accompanied by a	a total of sheet a copy of each prior art document c	
a translation of the of a translation furned b. With regard to any nucleor. 2. X Certain claims were found. 3. X Unity of invention is lack. 4. With regard to the title, the text is approved as sub-	oplication in the language in which international application intonished for the purposes of internationated and/or amino acid sequenced dunsearchable (See Box No. II)	t was filed, which is the language onal search (Rules 12.3(a) and 23.1(b)) disclosed in the international application, see Box No. I.
PHOSPHORYLCHOLINE CONJ 5. With regard to the abstract, X the text is approved as sul	bmitted by the applicant	
the text has been establish may, within one month fro	hed, according to Rule 38.2(b), by much the date of mailing of this internated the date of mailing of the internated the date of mailing of the date of mailing of the date of mailing of the date of	this Authority as it appears in Box No. IV. The applicant tional search report, submit comments to this Authority
6. With regard to the drawings,		
a. the figure of the drawings to be p		No. <u>4</u>
as suggested by t	• •	failed to suggest a figure
	s Authority, because the applicant to suthority, because this figure bet	
	s Authority, because this lighte bet e published with the abstract	ioi ondiaotoni255 the invention

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A. CLASSI	FICATION OF SUBJECT MATTER C07K16/44 A61K47/48 G01N33/	92 G01N33/68	
	o International Patent Classification (IPC) or to both national classification	cation and IPC	
	ocumentation searched (classification system followed by classifica	tion symbols)	
	A61K G01N C07K		
Documental	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	arched
Electronic d	lata base consulted during the international search (name of data b	ase and, where practical, search terms used)	
EPO-In	ternal, DISSERTATION ABS, CHEM ABS	Data, EMBASE, BIOSIS	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
X	DATABASE DISSERTATION ABSTRACTS ProQuest Info&Learning 2002, BINDER, CHRISTOPH JOHANNES: "Definnate and adaptive immune mechathe atheroprotective effect of immunization with oxidized low-or lipoproteins" XP002355546 retrieved from DIALOG accession 01907366 Database accession no. AADAA-I30 abstract & DISSERTATION ABSTRACTS INTERN vol. 63, no. 09-b, 2002, page 41	fining anisms in density no. 064459	1-9
X Furt	ther documents are listed in the continuation of Box C.	X See patent family annex.	
* Special	categories of cited documents: nent defining the general state of the art which is not	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or th	the application but
'E' earlier	dered to be of particular relevance document but published on or after the international	invention "X" document of particular relevance; the	
	ent which may throw doubts on priority claim(s) or	cannot be considered novel or canno involve an inventive step when the do	ocument is taken alone
citatio	n is cited to establish the publication date of another on or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an indocument is combined with one or m.	ventive step when the
other	nent referring to an oral disclosure, use, exhibition or means	ments, such combination being obvious in the art.	
	nent published prior to the international filing date but than the priority date claimed	*&* document member of the same patent	family
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report
1	10 February 2006	24/02/2006	
Name and	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Dullaart, A	·

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where appropriate, of the relevant passages PH JOHANNES: "Ph. D. OF CALIFORNIA , SAN J. ET AL: "Pneumococcal asses atherosclerotic molecular mimicry occus pneumoniae and une 2003 (2003-06), pages 5525 and column, last paragraph hand column, paragraph 3 Autoimmunity: Busting the olaque" JUN 2003 UNITED STATES, June 2003 (2003-06-01), P002355526	1-9	
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and column, paragraph 3		
"Innate and acquired rogenesis" D1 NOV 2002 UNITED STATES, (2002-11-01), pages 355527 -hand column, paragraph 2	1-9	
"The autoreactivity of holine antibodies for associated neo-antigens lls" OLOGY 15 JUN 2003 UNITED ,03-06-15), pages 355528 -hand column hand column, last 6156, left-hand column,	1-9	
	"Innate and acquired rogenesis" Of NOV 2002 UNITED STATES, (2002-11-01), pages 355527 -hand column, paragraph 2 "The autoreactivity of holine antibodies for associated neo-antigens lls" OLOGY 15 JUN 2003 UNITED ,03-06-15), pages 355528 -hand column hand column, last	"Innate and acquired rogenesis" 1-9 rogenesis" 201 NOV 2002 UNITED STATES, (2002-11-01), pages 355527 -hand column, paragraph 2 "The autoreactivity of holine antibodies for associated neo-antigens 11s" 20LOGY 15 JUN 2003 UNITED 203-06-15), pages 355528 -hand column hand column, last 6156, left-hand column,

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Camagory' Clouism of document, whin indication, where appropriate, of the revent pressence X BINDER CHRISTOPH J ET AL: "Molecular mimicry between epitopes of oxidized LDL and Streptococcus pneumoniae" ARBSTRACTS FROM AMERICAN HEART ASSOCIATION SCIENTIFIC SESSIONS 2000, 'Online! 12 November 2000 (2000-11-12), XP002355529 NEW ORLEANS, LOUISIANA, US, Abstract ID: 108867 Retrieved from the Internet: URL:http://aha.agora.com/abstractviewer> 'retrieved on 2005-11-10! the whole document & cIRCULATION, vol. 102, no. 18, Supplement, 31 October 2000 (2000-10-31), pages II.114-II.115, ISSN: 0009-7322 Y PURKALL D ET AL: "Opsonization of Actinobacillus actinomycetemcomitans by immunoglobulin G antibody reactive with phosphorylcholine" INFECTION AND IMMUNITY 2002 UNITED STATES, vol. 70, no. 11, 2002, pages 6485-6488, XP002355530 ISSN: 0019-9567 abstract page 6485, right-hand column, paragraph 3 Y US 5 455 032 A (KENNY ET AL) 3 October 1995 (1995-10-03) cited in the application examples claims table 2 Y WO 99/33522 A (BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM; SCHROIT, ALAN, J) B July 1999 (1999-07-08) examples claims Y SHOJI TETSUO ET AL: "Inverse relationship between circulating oxidized low density lipoprotein (oxLOL) and anti-oxLOL anti-body levels in healthy subjects" ATHEROSCLEROSIS, vol. 148, no. 1, January 2000 (2000-01), pages 174, paragraph DISCUSSION - page 176, left-hand column, last line/	C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
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Actinobacillus actinomycetemcomitans by immunoglobulin G antibody reactive with phosphorylcholine" INFECTION AND IMMUNITY 2002 UNITED STATES, vol. 70, no. 11, 2002, pages 6485-6488, XP002355530 ISSN: 0019-9567 abstract page 6485, right-hand column, paragraph 2 page 6486, left-hand column, paragraph 3 Y US 5 455 032 A (KENNY ET AL) 3 October 1995 (1995-10-03) cited in the application examples claims table 2 Y W0 99/33522 A (BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM; SCHROIT, ALAN, J) 8 July 1999 (1999-07-08) examples claims Y SHOJI TETSUO ET AL: "Inverse relationship between circulating oxidized low density lipoprotein (oxLOL) and anti-oxLOL antibody levels in healthy subjects" ATHEROSCLEROSIS, vol. 148, no. 1, January 2000 (2000-01), pages 171-177, XP002355531 ISSN: 0021-9150 abstract page 174, paragraph DISCUSSION - page 176, left-hand column, last line	X	mimicry between epitopes of oxidized LDL and Streptococcus pneumoniae" ABSTRACTS FROM AMERICAN HEART ASSOCIATION SCIENTIFIC SESSIONS 2000, 'Online! 12 November 2000 (2000-11-12), XP002355529 NEW ORLEANS, LOUISIANA, US, Abstract ID: 108867 Retrieved from the Internet: URL:http://aha.agora.com/abstractviewer> 'retrieved on 2005-11-10! the whole document & CIRCULATION, vol. 102, no. 18, Supplement, 31 October 2000 (2000-10-31), pages II.114-II.115,	1-9
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C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Calegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 5 475 100 A (HASHINO ET AL) 12 December 1995 (1995-12-12) example 4	10-15
Y	KOH-ZOH KAMEYAMA ET AL: "CONVENIENT PLASMID VECTORS FOR CONSTRUCTION OF CHIMERIC MOUSE/HUMAN ANTIBODIES" FEBS LETTERS, ELSEVIER, AMSTERDAM, NL, vol. 244, no. 2, 27 February 1989 (1989-02-27), pages 301-306, XP000007812 ISSN: 0014-5793 abstract page 304, left-hand column, paragraph 3.3	1-3,9
Х	SHAW PETER X ET AL: "Natural antibodies with the T15 idiotype may act in atherosclerosis, apoptotic clearance, and protective immunity" JOURNAL OF CLINICAL INVESTIGATION, vol. 105, no. 12, June 2000 (2000-06), pages 1731-1740, XP002204419 ISSN: 0021-9738 abstract page 1736, left-hand column, paragraph 2 - right-hand column, paragraph 18	10-16
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Y	US 5 955 584 A (DITLOW ET AL) 21 September 1999 (1999-09-21) abstract column 206 - column 210, line 25 column 210, line 38 - column 211, line 33	1-3,9-15
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INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claim 9 is directed to a method of treatment of the human/animal body, a search has been carried out, based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3 and 9 in part, and 4-8

Use of a phosphorylcholine conjugate in the treatment of atherosclerosis or related disease, and corresponding method of prophylactic or therapeutic treatment.

2. claims: 1-3 and 9 in part

Use of an antibody specific for a phosphorylcholine conjugate in the treatment of atherosclerosis or related disease, and corresponding method of prophylactic or therapeutic treatment.

3. claims: 10-15

Method of diagnosing the presence or absence of IgM or IgG antibodies as defined in these claims.

4. claim: 16

Use of a phosphorylcholine conjugate for assessing a patient's risk of developing or progression of ischemic cardiovascular disease as defined in this claim.

Information on patent family members

International application No PCT/GB2005/001463

	tent document in search report		Publication date		Patent family member(s)		Publication date
US	5455032	A	03-10-1995	NONE			
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